

CUTTING MECHANISM FOR A SABER SAW

CROSS REFERENCE TO RELATED APPLICATION

This application is a continuation of co-pending application Ser. No. 09/817,189 filed on March 27, 2001, ^{now U.S. Patent 6,634,107,} which is a
5 continuation-in-part of the application Ser.No.09/468,127
filed on December 21, 1999 (now U.S. Patent No.6,282,797)

BACKGROUND OF THE INVENTION

The present invention relates to saber saws. Various saber saws have been conventionally developed to cut or saw
10 woody or steel materials or pipes in the housing or building
construction sites or similar fields.

Conventional saber saws are basically classified into first and second types. According to a saber saw of the first type, a saw blade is reciprocated along a linear path. Accord-
15 ing to a saber saw of the second type, a saw blade is moved along an orbital path, for example, an elliptic path. The second type is also referred to as the orbital cutting type.

U.S. Pat. No. 3,945,120 discloses a vibration dampening and heat sink mechanism for a reciprocating hand-held saw
20 which has a carrier guide with limited axial and radial movement positively controlled by an eccentric.

The conventional saber saws of the orbital cutting type, for example disclosed in U.S. Pat. No. 3,945,120 and in U.S. Pat. No. 3,461,732, are preferable to cut relatively soft material, such as woody members.
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